

SIEMENS

ARCADIS

SP

Software

System

Software Installation VB13C including Bugfix 1

Valid for:

ARCADIS Varic

ARCADIS Orbic

ARCADIS Avantic

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General Information

Passwords

Required passwords are not included in this document. You will find them in the CS Knowledge Base on the intranet or you can obtain them from the relevant USC or RSC.

Service, shutdown, hibernation

CAUTION

Switching the system off via hibernation (version VB13C and later) after service or before handover to the customer is not sufficient.

Various error messages can appear after the next system boot and configuration changes are not saved.

- ⇒ To ensure that the configuration changes are saved, a proper shutdown must be performed. Shut down the system via the upper monitor menu bar <Options>-<End Session>-<Shut Down System> and then press the "off" key on the monitor trolley.

Handover to the customer

NOTE

Before the system is handed over to the customer, the system must be shut down via the menu bar <Options>-<End Session>-<Shut Down System>.

Switching the system off via hibernation (on/off button on the monitor trolley) is not sufficient.

Safety information

When performing the work steps and checks, the general safety information for medical products must be observed.

Installation Time

- The complete software installation procedure takes about 3 hours. The time needed to save patient images is not included in the calculation.

Installation Prerequisites

Required CD's / DVD's

- Image System Software VB13C (CD / DVD)
- Aspia VB13C Bugfix 1 CD
- Fast View CD (VA00A)
- CD for backup
- Quick Reference Guide CD (if available)

Released UI's for software VB13C and content of the upgrade kits

- SP003/06/S ARCADIS Varic / Orbic: VB13C Update
 - ⇒ Imaging system CD / DVD
 - ⇒ Fast View CD
 - ⇒ Host SW CD main system
- SP008/06/P ARCADIS Avantic: VB13C Update
 - ⇒ Imaging system DVD
 - ⇒ Fast View CD
 - ⇒ Host SW CD main system
- SP003/07/P ARCADIS Varic/Orbic/Avantic: VB13C Bugfix 1
 - ⇒ Bugfix 1 CD
 - ⇒ Boot CD main system (for Varic / Orbic only)
 - ⇒ COPATCH SW VA01A CD (daylight saving time feature)

Software / backup

- In case of a defective PC, an actual backup of the VB13C system settings must be available.

Monitors

- Make sure that both monitors are connected and switched on.

Local printer (if applicable)

- USB Printer (Sony): Make sure that the local printer is switched off and the USB connection is **not connected** to the imaging system PC.
- Parallel port printer (Codonics): Make sure that the local printer is switched on and **connected** to the imaging system PC.

USB

- Make sure that no USB memory stick is connected to the imaging system PC.
 - ⇒ This would result in failure to detect the drive.

NOTE

Be aware that the dongle is not a memory stick.

Network

- The system must be physically disconnected from the network during software installation.

Function test

- Check the functional status of the system.
 - ⇒ No error message should appear on the system.

Saving the patient images

Patient images that are not saved will be lost when the SW is downloaded.

- Send any patient images in the system to the archive or burn them to a CD.

Password List

- The knowledge base password list must be available.

HIPAA Administrator Logon (only if HIPAA is configured)

NOTE

If a login window appears after the system startup, then HIPAA is configured.

NOTE

If the administrator password is not known, then the first login with HIPAA is not possible.

1. If the administrator password is not known for sure, switch the system on and log into the service application.
2. Click <Configuration>-<Next>-<Users>.
3. Enter the password (e.g. default password, see SP password list) in the "Password" and "Confirm" fields below "Account for Administrator".
 - ⇒ With HIPAA configured, the administrator password is necessary for the first HIPAA login after the restore of "SW_Settings 02".

Entering and Saving Data

Service key /Password

- Record the service key
⇒ It can be found, for instance, in the system binder.

BIOS password

- Record the BIOS password.....
⇒ This is listed in the knowledge base password list.

Computer name

- Record the computer name.....
⇒ It can be found in the service software under Configuration/Local host/TCP IP LAN/Computer name.

Administrator logon

- Record the administrator name
⇒ This is listed in the knowledge base password list.
- Record the administrator password
⇒ This is listed in the knowledge base password list.

HIPAA logon (only if HIPAA is configured)

- Record the HIPAA user name.....
⇒ A user name can be obtained from the HIPAA administrator.
- Record the HIPAA user password.....
⇒ A user password can be obtained from the HIPAA administrator.

Procedure when the SW Installation has been aborted



Fig. 1: BIOS reset key

- Press the "Reset" key (Fig. 1 / p. 11) on the monitor trolley using a pin-shaped object.
 - ⇒ The system power switches off immediately.
- Start again with "Software Installation VB13C".

Backup

NOTE

All network settings, including the static route, are a part of “SW-Settings02”.

NOTE

The monitor trolley and the basic unit must be connected. (Plug X10 is connected to socket X10.)

NOTE

For units with HIPAA, a backup of the “SW-Settings 02” with the previously changed password is absolutely necessary.

1. Insert an empty CD-R into the CD-R/ DVD drive.
2. Log into the service application and click <Backup & Restore>.
3. Under “Command”, select “Backup”.
4. Under “Drives”, select “(-R-) CD-R” in the “Drives” list field.
5. Perform a backup of the following packages:
 - ⇒ SW-Settings02
 - ⇒ ASPIASettings
 - ⇒ ExamSet
 - ⇒ Security-Settings (Option HIPAA)
 - ⇒ MainSystem
 - ⇒ 3D-Settings (Option Orbic 3D)
6. Remove the CD-R from the CD/DVD drive and write the system serial number, software version, date and “Backup” on the CD-R.
7. Click <Home>.
 - ⇒ If the update instructions UI003/06/S (Varic/Orbic), UI008/06/P (Avantic), and UI003/07/P (ARCADIS all) have been already performed, the following chapters can be skipped.
 - **“Download the Main System SW”**
 - **“Download the Main System Boot SW (Varic / Orbic only)”**

Download the Main System SW

NOTE

A download of the main system software is required only if the main system D1 board has been replaced.

NOTE

ARCADIS Varic/Orbic systems should have been updated with UI SP003/06/S. Latest host sw-version = SMC_Plus_VD00A009

ARCADIS Avantic systems should have been updated with UI SP008/06/P. Latest host sw-version = ARC C08 VA01A004

1. In the Service menu, click "Main System" and <Next>.
2. Under the "Download" menu click <C-Arm>.
3. Insert the main system software CD into the CD/DVD drive.
 - ⇒ Wait until the CD is recognized by the CD/DVD drive.

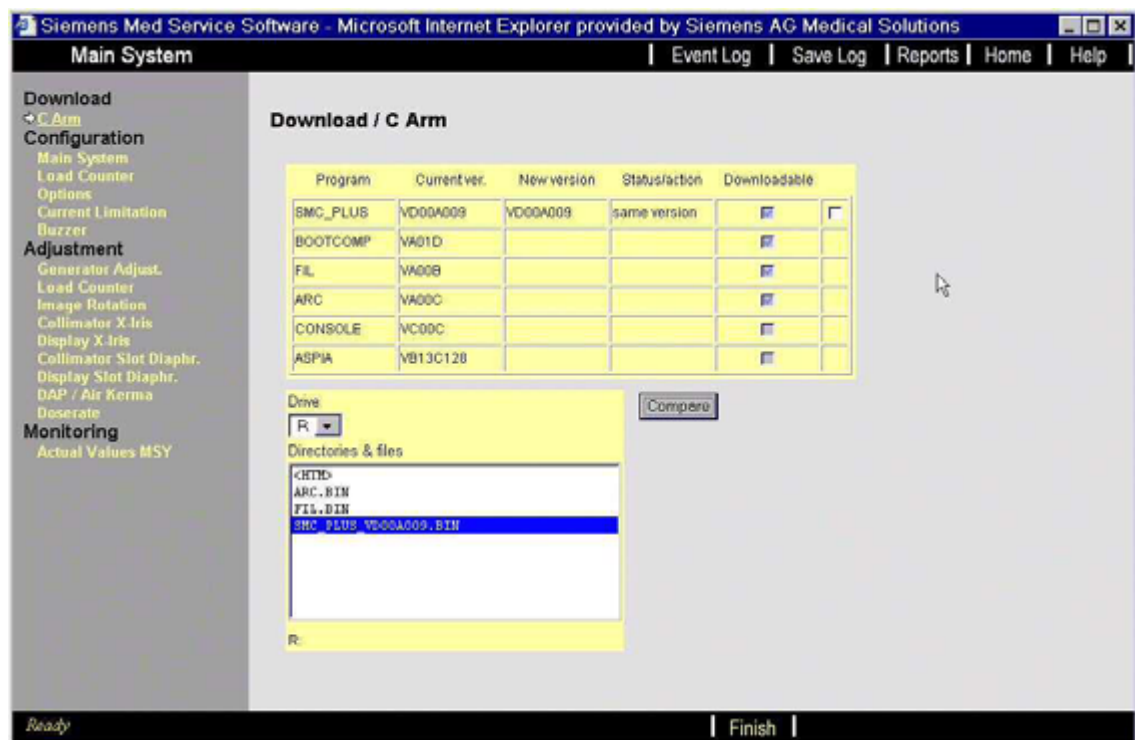


Fig. 2: Download_Host

4. Under "Drives" select "(-R-) CD-R" in the "Drives" list field.
5. Under "Directories & files" select:
 - for ARCADIS Varic/Orbic --> "SMC_Plus_VD00A009.BIN" and click "compare".
 - for ARCADIS Avantic --> "ARC C08 VA01A004.BIN" and click "compare".
 - ⇒ The file version is displayed under <New version>, and the recommended action (e. g. update necessary) is displayed under <Status/Action>.
6. Click <Download>.
 - ⇒ A progress bar indicates the progress of the download.

7. When the download is completed, click <Finish> and remove the sw CD from the CD/DVD drive.

Download Main System Boot SW (Varic / Orbic only)

NOTE

Perform the download of the main system boot software only in combination with ARCADIS Varic or Orbic systems.

ARCADIS Varic/Orbic systems should be updated with UI SP003/07/P. Latest boot sw version = VA01D.

Download the boot software (Varic / Orbic)

1. In the Service menu, click "Main System" and <Next>.
2. Under the "Download" menu click <C-Arm>.
3. Insert the VA01D main system boot CD (part of Bugfix 1) into the CD/DVD drive.
 - ⇒ Wait until the CD is recognized by the CD/DVD drive.

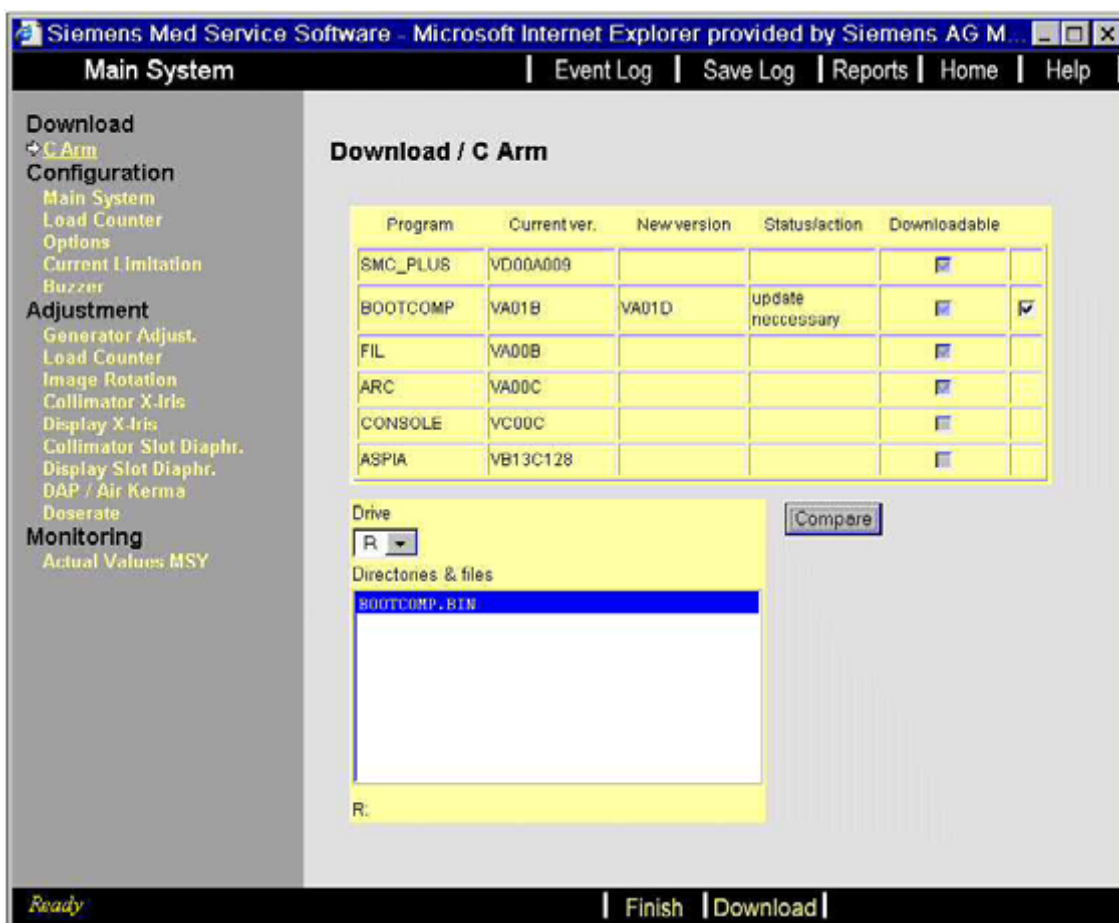


Fig. 3: Download Boot VA01D

4. Under "Drives" select "(-R-) CD-R" in the "Drives" list field.
5. Under "Directories & files" select:
 - ⇒ **BOOTCOMP.BIN**

6. Click "Compare".
 - ⇒ The file version is displayed under <New version>, and the recommended action (e. g. update necessary) is displayed under <Status/Action>.
7. Click <Download>.
 - ⇒ A progress bar indicates the progress of the download.
8. When the download is completed, click <Finish> and remove the boot software CD from the CD/DVD drive.

Software Installation VB13C

Installation prerequisites

- Ensure that the USB local printer (SONY) is disconnected from the imaging system PC.
- Ensure that the any network connection is disconnected from the monitor trolley.
- Ensure that no USB memory stick is connected to the imaging system PC.
- Ensure that both monitors are connected and switched on.
- Ensure that a backup of the current system configuration is on hand.
- Ensure that all patients are archived.

Installation preparations

1. Disconnect the main system from the monitor trolley.
2. Switch the system on if it is switched off.
3. Shut down the system via the menu bar <Options>-<End Session> <Shutdown System> .
4. Immediately after this, switch off the system by pressing the power off button at the monitor trolley.
 - ⇒ Wait until the shutdown is finished.

Image file installation

1. Switch on the system with the monitor trolley power on button.
2. As soon as text is displayed on the left monitor, press the “F2” key on the keyboard.
 - ⇒ The BIOS login window is displayed.

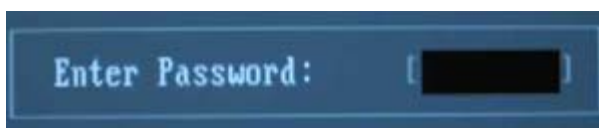


Fig. 4: Bios_PW

3. Enter the BIOS password and confirm it by pressing the “Enter” key.
4. Insert the “image system VB13C” software CD/DVD into the CD /DVD drive.
 - ⇒ M420 PC with CD drive: Insert CD 1 in the CD-R drive
 - ⇒ M430/M450 PC with DVD drive: Insert the DVD in the DVD drive.

NOTE

The DVD drive is identifiable with the “DVD” label below the slide-in card.

5. Press the “F9” key on the keyboard.
 - ⇒ “Load default configuration now?” is displayed.

6. Confirm the “Yes” button by pressing the “**Enter**” key .
7. Press the “**F1**” key and read out the BIOS version from the info page.
 - ⇒ “Bios Release: PhoenixBIOS Version 4.06 Rev. 1.04.1688” = **PC M420**
 - ⇒ “Bios Release: Version 5.00 R1.04.1858” = **PC M430**
 - ⇒ “Bios Release: Version 5.00 R1.04.2438.A2” = **PC M450**
8. Press the “**ESC**” key to close the info page.
9. Perform with **PC M450** only :
 - Select <Advanced> with the cursor keys and press the “**Enter**” key.
 - Select <USB BIOS Supported Devices> with the cursor keys and press the “**Enter**” key.
 - Change the setting from “Auto” to “Keyboard/Mouse” and press the “**Enter**” key.
 - Press the “**ESC**” key to exit the <Advanced> menu.
10. Press the “**ESC**” key to select “Save Changes & Exit”.
11. Confirm the text line “Save Changes & Exit” by pressing the “**Enter**” key.
 - ⇒ The message appears: “Save configuration changes and exit now?”
12. Confirm the <Yes> button by pressing the “**Enter**” key.
 - ⇒ The system boots and installs the BIOS settings. This takes a while.
 - ⇒ On systems with a CD drive, the message “System Ready for Image Installation” - “Press any key to continue...” is displayed.
 - ⇒ Systems with DVD drive: The message “Varic, Orbic, Avantic (V, O, A)” is displayed.
13. On systems with a CD drive, start the image installation by pressing the “**Enter**” key.
14. On systems with a DVD drive, select the system by pressing the correct letter on the keyboard:
 - “**V**” for ARCADIS Varic software installation,
 - “**O**” for ARCADIS Orbic software installation,
 - “**A**” for ARCADIS Avantic software installation,
 - ⇒ When the letter key on the keyboard is pressed, the image installation starts.

15. After a few seconds, a license agreement window is displayed.

Confirm the <OK> button by pressing the “**Enter**” key

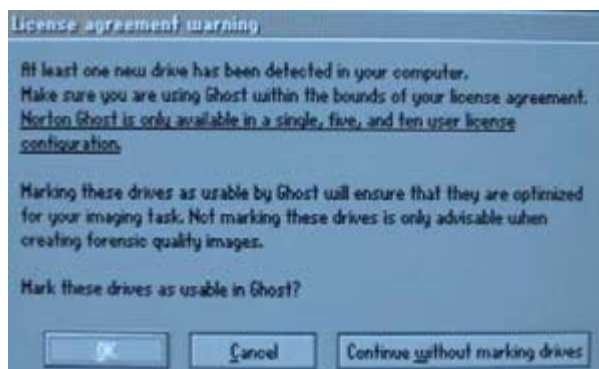


Fig. 5: Ghost_License

⇒ The image installation starts.

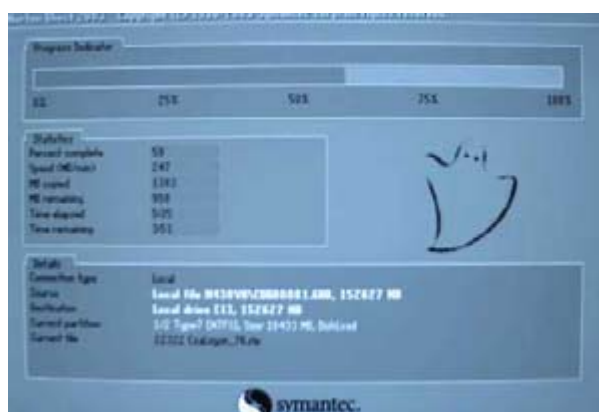


Fig. 6: ghost_progress

16. On systems with a CD drive: When the image installation reaches approx. 50%, the message “Span Volume (1) Done (xxx)” is displayed.

Open the CD drive tray and remove CD 1 from the CD drive.

Insert CD 2 in the CD drive and close the CD drive tray.

Press the “Enter” key to continue the image installation.

17. After successful installation of the image files, the system reboots automatically.

⇒ After the reboot, the Windows XP Setup window is displayed on the left monitor.

Installation of Windows XP and syngo application

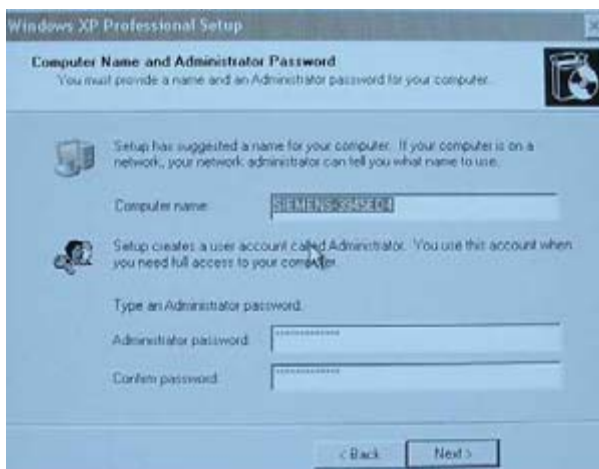


Fig. 7: compute_name

NOTE

DO NOT enter any password into the “Administrator password” fields!

1. When the window “Computer name and Administrator Password” appears, enter the previously noted computer name in the “Computer name” field.
2. In the window click the <Next> button.
 - ⇒ Windows XP Professional installation begins.
 - ⇒ After Windows XP Professional is successfully installed, the system reboots automatically.
 - ⇒ Some installation scripts will be started automatically.

NOTE

If the window “Welcome to found new Hardware Wizard” appears, select “No, not this time”--> <Next>, --> “Install the software automatically (Recommended)” and <Next>--<Finish>. The message “The system cannot find the file specified” disappears after a while and the installation continues.

NOTE

With black & white monitor: If the login dialog window is displayed off center, the monitor resolution was not correctly detected at this time on the TFT displays.

As a work-around, grab the login window with the mouse and move it into the center of the monitor.



Fig. 8: Login_corner

⇒ After a second reboot, the login dialog window is displayed.



Fig. 9: meduser

NOTE

If you enter an incorrect password or user name, it takes about 20 minutes before a new entry of the password is possible.



Fig. 10: ARCADIS Keyboard, US layout

NOTE

Regardless of the keyboard, the keyboard layout is English. The @ sign can be selected by pressing the <Shift> + <2> keys simultaneously.

3. In the login dialog, change the user name to meduser and enter the password.
 - ⇒ User name: **meduser**
 - ⇒ Password: **@med@User...** ("..." = the last 3 digits of the previously noted computer name)
4. Click <OK>.
 - ⇒ Auto configuration starts.

NOTE

If the auto configuration stops unexpectedly, in the "Display Properties" window click "Apply" and "OK" to continue the auto configuration.

- ⇒ Wait for the Explorer window "Please enter license" (see next section).

Local Service Configuration

**NOTE**

If no backup is on hand, configure the system according to the configuration guide.

1. Remove the installation CD/DVD from the drive.
 2. Select "Click here to start the Local Service Configuration".
 3. Under "password", enter the service key into the service window.
 4. Select <Set as default>.
 5. Confirm by clicking <OK>.
- ➡ The <Home> menu window of the local service is displayed.

Restore Part 1

NOTE

After each backup package is restored successfully, the message "A reboot is necessary to make changes valid!" appears.

DO NOT select <OK> until the required backup packages are restored!

1. Insert the backup CD into the CD /DVD drive.
2. In the Service menu, click <Backup & Restore>.
3. Under “Command” select “Restore” and select “(-R-) CD-R” under “Drives”.

SW-Settings 02

1. Under “Archive” select the correct (newest) backup file of “SW-Settings 02”
2. Highlight all the files in “Groups” (press the “Shift” key and select the first and last entry of groups).
3. Click <Go> .
4. Click <**Cancel**> when the following window appears: “A reboot is necessary to make changes valid!”.

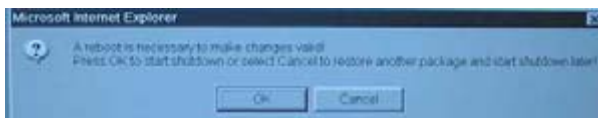


Fig. 11: OK_Cancel

ASPIA Settings

1. Under “Archive” select the correct backup file of the “ASPIA Settings”
2. Highlight all the files in “Groups”.
3. Click <Go>.
4. Click <**OK**> when the window “A reboot is necessary to make changes valid!” appears.
⇒ The system shuts down.

Exam set

NOTE

Do not restore the exam sets now! The restore of the user-defined exam sets must be performed after Bugfix 1 is installed.

Main System

NOTE

The main system parameters are obtained at the main system D1 board. A restore is necessary only after a D1 replacement.

Database creation and activating the restored values

1. Wait until the patient database creation is complete (approx. 15 min.).
 - ⇒ The syngo counter screen appears.
 - ⇒ When this is completed, a window appears with the following text:
“Warning: database creation in progress, this will last a long time. Wait until the patient registration dialog is open! Press any key to continue...”
 - ⇒ Wait until the patient registration dialog or the patient browser is displayed.
2. Close the patient registration dialog or the patient browser.
3. Click the window “Warning: Database...” and press the “Enter” key.
 - ⇒ The window “Warning: Database...” disappears.

Install Bugfix 1**Update main system, adjustment instructions**

1. Remove the backup CD and insert the update CD (Bugfix 1) into the CD/DVD drive.
2. Log into the service menu and click “Utilities”.

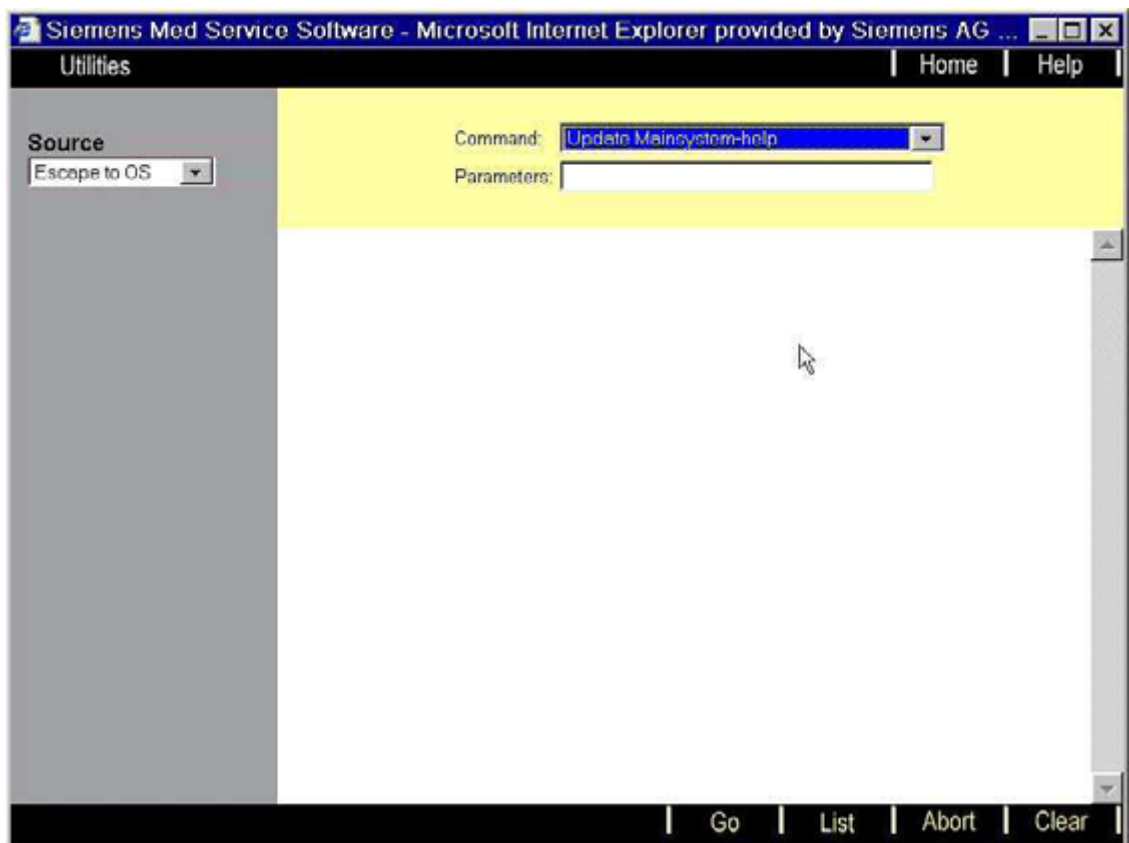


Fig. 12: Update MainSystem_Help

3. Under “Source”, select “Escape to OS”.

4. Under "Command" select "Update Mainsystem-help".
5. Click "Go".

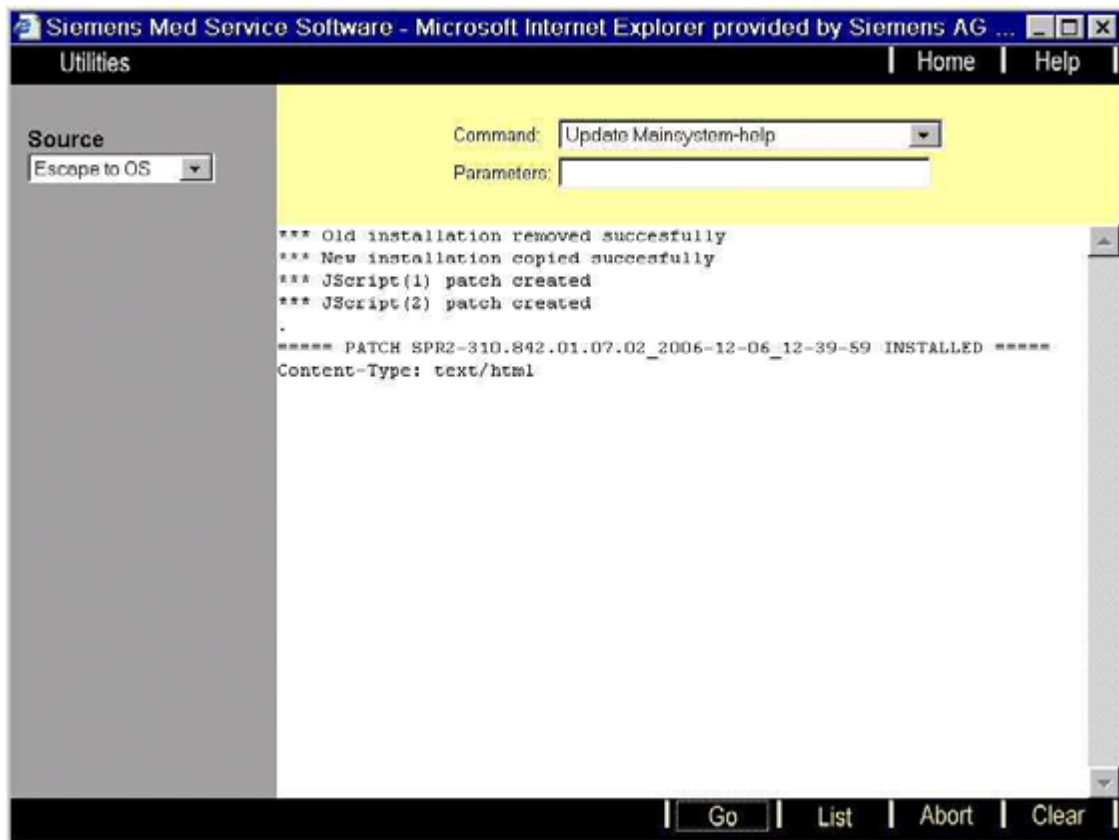


Fig. 13: MSY update successful

- ⇒ "Successful" message appears in the window.
- ⇒ Do not remove the "Bugfix 1" CD from the drive.

Install imaging System DLL's

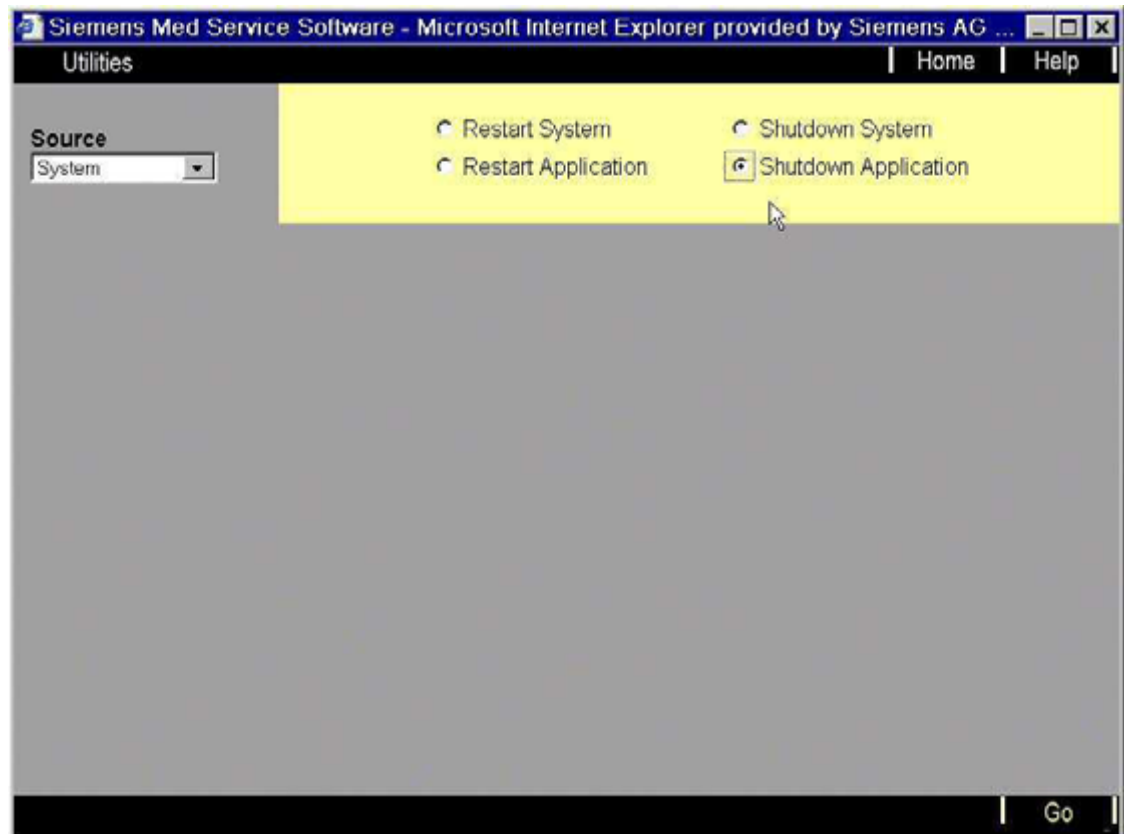


Fig. 14: Shut down application

6. Under "Source" select "System".
7. Select "Shutdown Application" and click <Go>.
 - ⇒ The message box appears: "Application shutdown was selected. Are you sure?"
8. Click <OK>.
 - ⇒ The system shuts down to the Windows XP level.
 - ⇒ The message "Shutdown of Application finished..." appears.
9. In the Windows menu bar, click <Start>-<Shut Down...>.
10. Select "Log off meduser".
11. Click <OK>, then **immediately** (within 1 sec.) press and hold the shift key on the keyboard.

NOTE

If the "Log on" window does not appear, repeat the section "Log off as meduser"..." after the system restart.

- ⇒ A "Log on" window appears.
12. Under "User name", enter:
 - ⇒ **administrator**

13. Under “Password”, enter:

⇒ The administrator password (see SP password list)

NOTE

If the administrator password is not set as default and is unknown, proceed as follows: In the “Service” menu click <Configuration> - <Next> then under “Local Host” click <Users>. In the “Account for administrator” fields, enter the password from the SP password list, confirm it, and click <Save>.

14. Click <OK>.

⇒ The system is now at the Windows XP level with administrator rights.

Updating the relevant DLL's

1. Open a Windows command shell.
2. In the Windows task bar, click <Start>-<Programs>-<Accessories>-<Command Prompt>

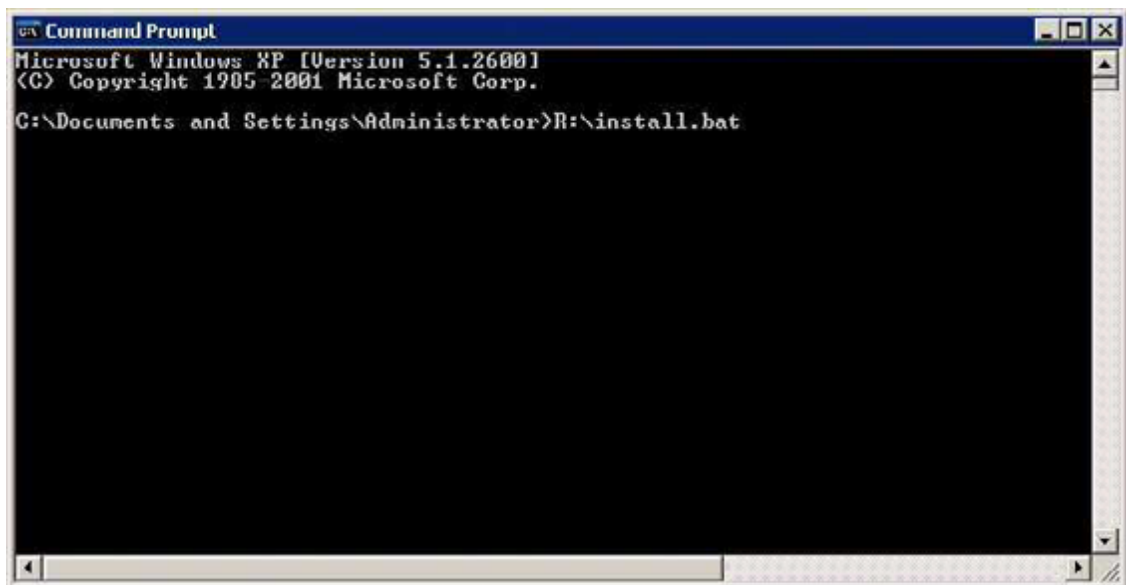


Fig. 15: R install.bat

3. Type into the shell the command line:

⇒ **R:\install.bat**

NOTE

Using the command shell, the US keyboard layout is active. The keys “:” and “\” can be found as shown in (Fig. 16 / p. 29).



Fig. 16: ARCADIS Keyboard, US layout

4. Press the enter key to execute the command.

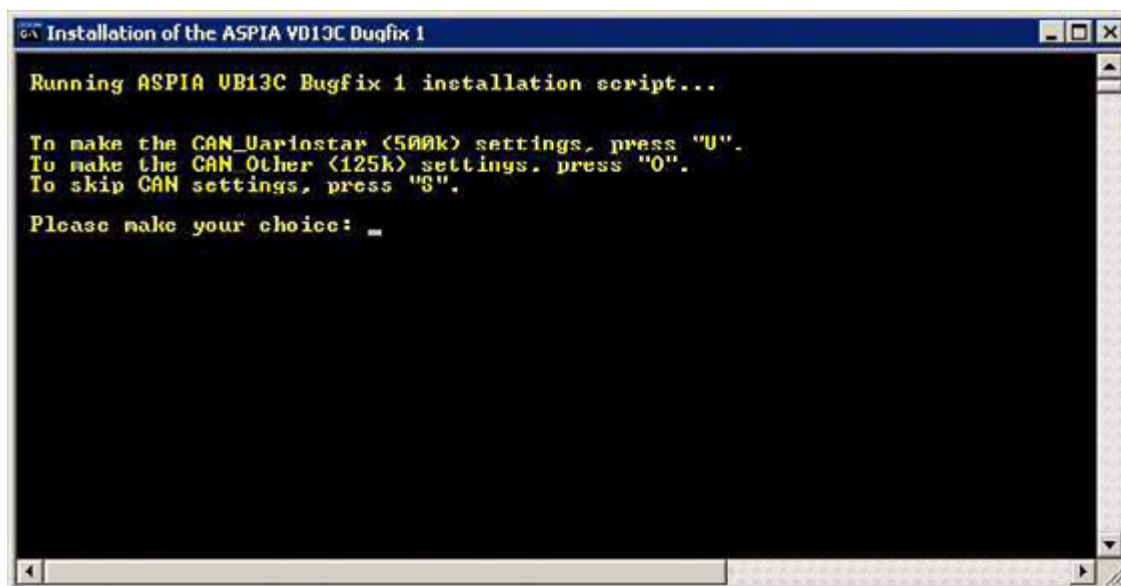


Fig. 17: CAN_Variostar_other

NOTE

For ARCADIS Orbic 3D systems, a baud rate of 125 must be set. If you have set the wrong baud rate, repeat “Updating the relevant DLL’s” and set the correct baud rate.

5. Enter the correct CAN-settings when “Please make your choice” appears in the window (Fig. 17 / p. 29).
 - **Default:** Select “O” for all systems that are not in use with Variostar
 - ⇒ the CAN baud rate is set to 125

- **Variostar (litho report):** Select “V” for systems that are in use with Variostar.
 - ⇒ the CAN baud rate is set to 500

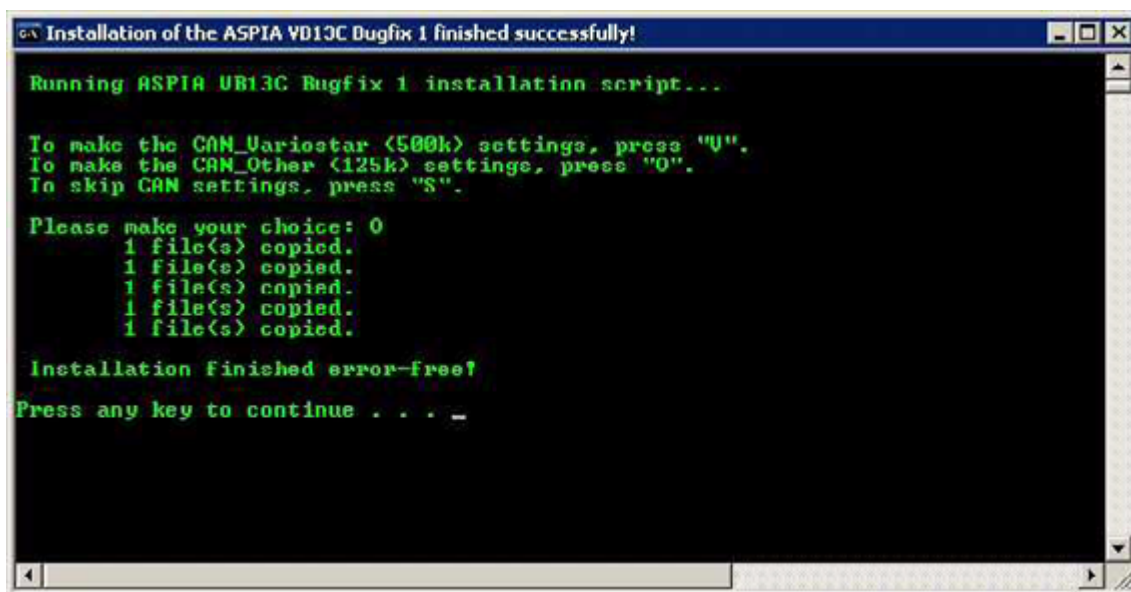


Fig. 18: Bugfix 1 finished

6. Check the written text in the window:
 - ⇒ **Installation finished error-free!**
 - ⇒ The exact output (Fig. 18 / p. 30) can vary depending on the choice made and whether the bugfix has ever been installed before.
7. Remove the “Bugfix1” CD from the CD/DVD drive and press the Enter key.
8. Insert the “COPATCH SW VA01A” CD into the CD/DVD drive.
 - ⇒ The windows command shell is still open.

Updating the software relevant to the daylight saving feature

NOTE

Install the daylight saving time update on all systems.
--

WARNING

Do not change the date of the PC manually, e.g. to test the daylight saving time software update after installation.

The syngo internal license manager blocks all licenses if the date is manipulated! A complete new software installation must be performed!

⇒ Do not change the date of the syngo PC manually!



Fig. 19: ARCADIS Keyboard, US layout

NOTE

When the command shell is being used, the US keyboard layout is active. Use the layout diagram illustrated here: (Fig. 19 / p. 31) to locate the “:” and “\” keys.

9. Type the following command line into the shell:

⇒ **R:\TZUPDATE -L**

NOTE

Enter the command exactly as printed:

“R:\TZUPDATE”<space key>“-L” and press the <Enter> key on the keyboard.

10. Press the "Enter" key to execute the command.

- ⇒ After a few seconds, the message “Start Time Zone Settings Update” is displayed in the command shell window.
- ⇒ After a few seconds, the message “Update of time zone settings done” is displayed in the command shell window.

NOTE

If the message “The system cannot find the file specified” appears in the command shell window, it means that some of the necessary files could not be found on the CD-R. Check the CD-R (for dust, scratches, etc.) and repeat the update by entering “R:\TZUP-DATE -L” again and pressing the Enter key.

11. After the successful installation of the daylight saving time software update, remove the “COPATCH SW VA01A” CD from the CD/DVD drive.

Checking the local time zone

NOTE

You must be logged on as “administrator”. The syngo application is still not running.

WARNING

Do not change the date of the PC manually, e.g. to test the daylight saving time software update after installation.

The syngo internal license manager blocks all licenses if the date is manipulated! A complete new software installation must be performed!

⇒ Do not change the date of the syngo PC manually!

1. In the Windows task bar, double-click the displayed time (in the lower-right corner of the monitor).
 - ⇒ The window “Date and Time Properties” is displayed.
2. Select the “Time Zone” tab card.
3. Check to make sure your local time zone is selected in the first line.
4. If the customer wants, you can deselect (uncheck) the check box “Automatically adjust clock for daylight saving changes”.

NOTE

In some time zones, such as Arizona, the check box “Automatically adjust clock for daylight saving changes” is not present.

5. Close the “Date and Time Properties” window by clicking the “OK” button.
6. In the Windows task bar, click <Start>-<Shut Down...>-<Restart> and confirm with <OK> to restart the system.
 - ⇒ After the restart, you are logged onto the system as “meduser”.
 - ⇒ The label “BF1” (Bugfix 1) is shown during the boot sequence and under the syngo menu bar under <Help>-<About syngo...>.

Restore Part 2

User-defined exam sets

1. Switch the system on and insert the backup CD into the CD /DVD drive.
2. Log into the service application and click <Backup & Restore>.
3. Under “Command” select “Restore” and select “(-R-) CD-R” under “Drives”.
4. Under “Archive” select the correct backup file of “Exam Sets”.
5. Highlight “Filter_Files” and “User Defined_ExamSets”.

NOTE

DO NOT highlight (select and restore) the “Default_Exam_Set”!

6. Click <Go>
 - ⇒ The “Exam sets” window is displayed.
7. Select all exam sets in the window “ExamSets in backup package” and click “Import” to load the exam sets into the window “Installed ExamSets”.
8. Click <Go>.
 - ⇒ If an error is displayed for some exam sets, these exam sets are not valid and accordingly are not imported.
9. Click <Cancel> when the following window appears: “A reboot is necessary to make changes valid!”.

3D Settings (only for ARCADIS Orbic)

1. Under “Archive” select the correct backup file of 3D reconstruction settings.
2. Click <Go>.
3. Click <Cancel> when the window “A reboot is necessary to make changes valid!” appears.

Security Settings (only if HIPAA is configured)

NOTE

If HIPAA is configured, an HIPAA password is required after the restore of the security settings, on every system restart. For login, the “HIPAA” user name and password is needed.

NOTE

Between the restore of the “SW-Settings 02” and the restore of the security settings a restart of the system is necessary. The required restart is already carried out in prior work steps.

1. Under “Archive”, select the correct backup file of “Security Settings”.
2. Click <Go>.

3. Click **<Cancel>** when the following window appears: "A reboot is necessary to make changes valid!".
 - ⇒ Now the usernames and passwords stored in the security settings are valid again.
 - ⇒ Next time, log in with the username/password obtained from the HIPAA administrator.

Final steps of software installation

1. Remove the backup CD from the CD/DVD drive.
2. In the service menu click **<Home>-<Configuration>-<Next>** and **<Site Info>**.
3. Click **<Save>-<Finish>** and **<Home>**.
 - ⇒ Now, the label "BF1" (Bugfix 1) is shown in the start-up page of the local service.
4. Continue with "Image text configuration".

Image Text Configuration

1. In the syngo menu bar, select <Options>-<Configuration>.
2. Double-click "Image text editor".
3. Under "View Name" (Basisformat), select "XA Image".
 - Deselect software version
 - ⇒ Software version = ☐
4. Click <Apply>.
5. Under "View name", select "ARCADISAcqView".
6. Click "Customized text" ("Ausgewählte Texte").
 - ⇒ "Image Date" = ☐
 - ⇒ "Image Time" = ☐
 - ⇒ "Image Number" = ☐
7. Click <Apply>.
8. Click <OK> and close the Configuration panel.

Country-Specific Keyboard Layout and User Interface

1. In the "Configuration" panel double-click "Regional and Language...".
2. Select "Regional Options".
3. Under "Standards and formats", select the appropriate language from the drop-down menu:
 - English (United States)
 - German (Germany)
 - French (France)
 - Spanish (Spain)
4. Under "Location", select your corresponding location.
5. Click <Apply>.

NOTE

"English (United States)" is the default setting. As a result, "Apply" is not available.

6. Select the "Languages" tab card and click <Details...>.
7. Under "Installed services" click "Add..."
 - ⇒ The window "Add input language" appears.
8. Under "Installed services", the following "input language" can be selected:
 - English (United States)
 - German (Germany)
9. Under "Keyboard layout / IME", select the appropriate keyboard language from the drop-down menu:
 - US
 - United Kingdom
 - German
 - Swedish
 - Portuguese
 - Italian
 - French
 - Spanish

NOTE

If a keyboard language (e. g. "US") is displayed under "Installed services", it disappears from the "Keyboard layout/IME" drop-down menu.

NOTE

The keyboard language can also be found in the delivery list from the factory.

10. Click <OK> to close the "Add input language" window.
 - ⇒ Only one keyboard layout should be selected under "Installed services".

11. Click <Apply> and <OK> to close the window "Text Services and Input Languages".
12. Click <Apply> and <OK> to close the window "Regional and Language Options".
 - ⇒ If the language has been changed the following message appears:
The following is displayed in the case that values have been changed:
"The regional settings have been changed.
Therefore a restart of the application is necessary.
Do you want to restart the application now?"
 - ⇒ In case of language change click on <OK>. This will apply the settings and the system restarts.
 - ⇒ Otherwise shut down the system via <Options>-<End Software Session>-<Shut-down System>.

fastView Update

1. Insert the CD-R “fastView @SP VA00A” into the CD/DVD drive.
2. In the local service menu, click <Utilities>.
3. Under “Source”, select “Escape to OS”.
4. Select “NT Command Interpreter” in the <Command:> line.
5. Enter “**R: & runupdate**” in the <Parameters:> line and click <Go>.

NOTE

Enter the command exactly as printed:

“R:”<space key>”&”<space key>”runupdate”

and press the <Enter> key on the keyboard.

6. Wait until the message “**** ASPIA successfully updated ****” is displayed.
⇒ The scroll bar slider must move down to make the message visible.
7. Click <Home> in the service menu and remove the CD-R from the CD/DVD drive.

NOTE

If the fastView software was successfully updated and the “R: & runupdate” command is repeated, the error message

“**Error: failed to update fastView! ****”**

is displayed.

In that case, ignore the error message.

NOTE

A reboot of the system is not necessary.

Quick Guide for System Operation

NOTE

The “Quick Reference Guide” was included in the VB11A upgrade kit for ARCADIS Varic. For systems delivered with VB11A or higher, the reference guide was added at the factory. Check the monitor trolley service tray or the operator manual for the “Quick Reference Guide” CD.

1. In the Service menu, click <Configuration>.
2. Under “Help / Documentation”, click “Help Update”
3. Place the “Quick Reference Guide” CD-R into the DVD drive.
4. Select the path and file(s) under “Directories and file”.
5. Click <Save> and remove the CD-R from the DVD drive.

NOTE

If the “Quick Guide CD” was lost or is not available, it can be downloaded from the intranet.

- ⇒ Link ARCADIS Varic:
<https://intranet.med.siemens.com/sales/html/salesintranet/divisions/specialsystems/surgery/productsandsystems/arcadisvaric/default.asp>
- ⇒ Link ARCADIS Orbic:
<https://intranet.med.siemens.com/sales/html/salesintranet/divisions/specialsystems/surgery/productsandsystems/arcadisorbic/orbic3d/default.asp>

Test Images

- Test images are automatically installed during software installation.
 - ⇒ The “Service Patient” and corresponding images are shown only when the “Service menu” is opened and the log-in has been performed.

General Information

NOTE

Perform the steps in this chapter only if the system is equipped with a local printer.

NOTE

Local printer, PostScript printer

These printer types are not approved for diagnostic purposes.
Notify the responsible personnel about this limitation.

Sony UPD 72 (XR) Local Printer Installation

Prerequisites

NOTE

Do not connect the USB printer until you are instructed to in the course of the software installation process.

1. For the necessary test exposures, make sure the printer has paper or film.
2. Unplug the printer's USB connection to the PC.
3. Switch on the system and wait until it has booted.

Printer setup in local service

1. In the service menu, click <Configuration>.
2. In the window "List of system options", the ☒ "Paper Printer" check box must be checked.
3. Click <Next>.

Paper Printer

1. Under the "External Devices" menu, click "Paper Printer".
2. In "Available paper printer media formats", mark "A4" and "8x10". All other formats must be deselected.
3. Click <Save>.

Printer settings

1. Under the "External Devices" menu, click (or <Next> to go to) "Printer settings".
⇒ Make sure that the default value "black" is selected and click <Finish>.

PS LUT files

1. Under the "External Devices" menu, click "PS LUT files".
2. Ensure that the "Use LUT for Postscript Printers" check box is checked.
3. Ensure that the "Use floating Zoom factors" check box is checked.
4. In the "PS LUT directory" list field, select "PrtLUT_Gamma_1_6" (not "Printer LUT_1_6").
⇒ The scroll bar slider must be moved down to make the "PrtLUT_Gamma_1_6" visible.
5. Click <Select>.
⇒ The selected LUT appears in the "Current LUT" field.

6. Click <Save>.

⇒ If a window appears “A system reboot is necessary...” click <Cancel>.

NOTE

Do not shut down the system.

Log off as “meduser” and log on as “administrator”.

1. In the "Service" menu, click <Home> -<Utilities>.
2. Under “Source”, select “System”.
3. Select “Shut down Application” and click <Go>.
 - ⇒ The message box appears: “Application shutdown was selected. Are you sure?”
4. Click <OK>.
 - ⇒ The system shuts down to Windows XP level.
 - ⇒ The message “Shutdown of Application finished...” appears.
5. In the Windows menu bar, click <Start>-<Shut Down...>.
6. Select “Log off meduser”.
7. Click <OK>, then **immediately** (within 1 sec) press and hold the shift key on the keyboard.
 - ⇒ A “Log on” window appears.
 - Under “User name”, enter “administrator”.
 - Under “Password”, enter the administrator password (see SP password list).

NOTE

If the administrator password is not valid, proceed as follows: In the “Service” menu click <Configuration> - <Next> then under “Local Host” click <Users>. In the “Account for Administrator” fields, enter the password from the SP password list, confirm it, and click <Save>.

8. Click <OK>.
 - ⇒ The system is now at the Windows XP level with administrator rights.

Sony UPD 72 printer driver installation and settings

Printer driver installation

1. In the Windows task bar, right-click <Start>, select and click <Explorer>.
 - ⇒ Windows Explorer opens.
2. Select the path “C:\ASPIA\driver\UPD72”.
 - ⇒ The contents of the “C:\ASPIA\driver\UPD72” subdirectory are displayed.
3. Double-click the file “printer_Sony UP-D-72XR.reg” and confirm the subsequent message windows by clicking <Yes> and <OK>.

4. Under the path "C:\Aspia\driver\UPD72\", double-click "setup.exe" and perform the subsequent installation procedure.
 - ⇒ During this procedure you are requested to connect and switch on the printer.
 - ⇒ If the message "Printer is not found.Installation cancelled?" appears, then click <Retry>.

Printer driver settings

1. In the Windows task bar, click <Start>-<Settings>-<Printers and Faxes>.
2. Click the driver name "Sony UP-D72XR" with the right mouse button and select the <Properties> menu.
3. Select <Advanced>.
4. Click <Printing Defaults...> and deselect "Margin Print".
 - "Margin Print" = ☐
5. Click <Apply>.
6. Click <Graphics> and select:
 - "Sharpness" = "1"
 - "Dark" = "0"
 - "Gamma" = "8"
 - "Light" = "- 8" (minus 8)
7. Click <Apply> and <Save>.
 - ⇒ A window with the file name "Untitled.72x" appears.
8. Click <Save>.
9. In the window "Sony UP-D72XR Properties", click "General" and "Print Test Page".
 - ⇒ Wait until a Windows test page is printed out.
10. Close the windows by clicking <OK>.
11. In the Windows task bar, click <Start>-<Shut Down...>-<Restart> and confirm with <OK> to restart the system.
 - ⇒ After the restart, you are logged onto the system as "meduser".

Printer setup in syngo application software

Set the film size under "Filming"

1. On the right-hand monitor, select the "Filming" tab card.
 - ⇒ The "Filming" tab card is active on the right-hand monitor.
2. Select the "Camera" tab card on the "Filming" tab card.
3. In the "Camera" list field, select and click "Sony UPD72".
 - ⇒ The "Sony UPD72" list field must be highlighted.
4. In the "Film size" list field, click "8x10".
 - ⇒ The "8x10" list field must be highlighted.

Set the default printer for “Structured reporting”

1. On the “Examination” tab card, click <Options>-<Configuration> .
 ➡ The “Configuration” panel is displayed.
2. Double-click the <Structured reporting> icon (“Strukturierte Befundung”)
3. In the “Default Printer” list field, select and click “SonyUPD72” .
 ➡ The “SonyUPD72” list field must be highlighted.
4. In the “Default paper size” list field, select and click “8x10”.
 ➡ The “8x10” list field must be highlighted.
5. Click <Apply> and <OK>.

Configure “Filming Layout”

1. Double-click the <Filming Layout> icon.

NOTE

If a message box appears, confirm with OK and double click the <Filming Layout> icon again.

2. On the “Filming” tab card, enter the following parameters:

- New filmjob by patient = ☒
- New film sheet by (study or series) = ☐
- New row of images by (patient, study or series) = ☐
- Number of Copies = “1”
- Exposure every X document = “1”
- Filmsize = “8x10” --> click “8x10”
 ➡ The “8x10” list field must be highlighted.

NOTE

If the film size is not displayed, restart the system via <Options>-<End Session>-<Shutdown System> and repeat the section “Printer setup in syngo application software”.

- Segment lines = “Yes”
 - Page number on print out = ☒
3. Click “Apply”.
 4. On the “Series” tab card, enter the following parameters:
 - Layout divisions = “1x1”
 - Orientation = “Portrait” (“Hochformat”)
 - Image order = “Horizontal”
 - Aspect Ratio = “Keep visible part”
 - Copy Series = ☐
 5. Click <Apply> and <OK>.
 6. Shut down the system via <Options>-<End Session>-<Shutdown System>.

Sony UPD 970 and UPD 990 Local Printer Installation

Prerequisites

NOTE

Do not connect the USB printer until you are instructed to in the course of the software installation process.

1. For the necessary test exposures, make sure the printer has paper or film.
2. Unplug the printer's USB connection to the PC.
3. Switch on the system and wait until it has booted.

Printer setup in local service

1. In the "Service" menu, click <Configuration>.
2. In the "List of system options" window the "Paper Printer" check box ☒ must be checked.
3. Click <Next>.

Paper printer

1. Under the "External devices" menu click "Paper Printer".
2. In "Available paper printer media formats" mark "A4" and "8x10". All other formats must be deselected.
3. Click <Save>.

Printer settings

1. Under the "External Devices" menu, click (or <Next> to go to) "Printer settings".
⇒ Make sure that the default value "black" is selected and click <Finish>.

PS LUT files

1. Under the "External devices" menu click "PS LUT files".
2. Ensure that the "Use LUT for Postscript Printers" check box is unchecked.
⇒ The "PS LUT directory" field is not relevant.
3. Ensure that the "Use floating Zoom factors" check box is checked.
4. Click <Save>.
⇒ If a window appears "A system reboot is necessary..." click <Cancel>.

NOTE

Do not shut down the system.

Log off as “meduser” and log on as “administrator”.

1. In the "Service" menu, click <Home> -<Utilities>.
2. Under “Source”, select “System”.
3. Select “Shut down Application” and click <Go>.
 - ⇒ The message box appears: “Application shutdown was selected. Are you sure?”
4. Click <OK>.
 - ⇒ The system shuts down to Windows XP level.
 - ⇒ The message “Shutdown of Application finished...” appears.
5. In the Windows menu bar, click <Start>-<Shut Down...>.
6. Select “Log off meduser”.
7. Click <OK>, then **immediately** (within 1 sec) press and hold the shift key on the keyboard.
 - ⇒ A “Log on” window appears.
 - Under “User name”, enter “administrator”.
 - Under “Password”, enter the administrator password (see SP password list).

NOTE

If the administrator password is not valid, proceed as follows: In the “Service” menu click <Configuration> - <Next> then under “Local Host” click <Users>. In the “Account for Administrator” fields, enter the password from the SP password list, confirm it, and click <Save>.

8. Click <OK>.
 - ⇒ The system is now at the Windows XP level with administrator rights.

Sony UPD 970/990 printer driver installation and settings

Printer driver installation

1. In the Windows task bar, click <Start> with the right-hand mouse button, then select and click <Explorer>.
 - ⇒ Windows Explorer is opened and displayed.
2. Select and open the path “C:\ASPIA\driver\UPD9X0”.
 - ⇒ The contents of the subdirectory “C:\ASPIA\driver\UPD9X0” are displayed.
3. Double-click the file “printer_Sony_UP-970AD_990AD.reg” and confirm the subsequent message windows by clicking <Yes> and <OK>.
4. Connect the USB cable to the printer and switch the printer on.
 - ⇒ The hardware installation procedure starts automatically.
 - ⇒ Follow the procedure:

- Select "No, not this time".
- Click <Next>.
- Select "Install from a specific location (Advanced)".
- Click <Next>.
- Select "Include this location in the search".
- Select "Browse"
- Select the path "C:\ASPIA\driver\UPD9X0".
- Click <OK>.
- Click <Next>.
- ⇒ The driver installation starts automatically.
- Click <Finish>.

Printer driver settings

1. In the Windows task bar, click <Start>-<Settings>-<Printers and Faxes>.
2. Click the driver name "Sony UP-970AD/990AD" with the right mouse button and select the <Properties> menu.
3. Select <Advanced>.
4. Click <Printing Defaults>-<Density Adjust> and set the following values:
 - Gamma = "Tone1"
 - Advanced = "0"
 - Dark = 0
 - Light = "- 15" (minus 15)
 - Sharpness = "4"
5. Click <Apply> and <OK>.
6. In the window "Sony UP-970AD/990AD Properties", click "General" and "Print Test Page".
 - ⇒ Wait until a Windows test page is printed out.
7. In the Windows task bar, click <Start>-<Shut Down...>-<Restart> and confirm with <OK> to restart the system.
 - ⇒ After the restart, you are logged onto the system as "meduser".

Printer setup in SynGo application software

Set the film size under "Filming"

1. On the right-hand monitor, select the "Filming" tab card.
 - ⇒ The "Filming" tab card is active on the right-hand monitor.
2. Select the "Camera" menu tab card on the "Filming" tab card.
3. In the "Camera" list field, select and click "Sony UP-970AD/990AD".
 - ⇒ The "Sony UP-970AD/990AD" list field must be highlighted.
4. In the "Default Film size" list field, select and click "8x10".
 - ⇒ The "8x10" list field must be highlighted.

Set the default printer for “Structured reporting”

1. On the “Examination” tab card, click <Options>-<Configuration>.
 - ⇒ The “Configuration” panel is displayed.
2. Double click the “Structured reporting” icon (“Strukturierte Befundung”).
3. In the “Default Printer” list field, select “SonyUP-970AD/990AD” - even if “SonyUP-970AD/990AD” is already displayed.
 - ⇒ The “SonyUP-970AD/990AD” list field must be highlighted.
4. In the “Default paper size” list field, select and click “8x10”.
 - ⇒ The “8x10” list field must be highlighted.
5. Click <Apply> and <OK>.

Configure “Filming Layout”

1. Double click the <Filming Layout> icon.

NOTE

If a message box appears, confirm with OK and double-click the <Filming Layout> icon again.

2. Under the “Filming” tab card, enter the following parameters:
 - New filmjob by patient = ☒
 - New film sheet by (study or series) = ☐
 - New row of images by (patient, study or series) = ☐
 - Number of Copies = “1”
 - Exposure every X document = “1”
 - Filmsize = “8x10” --> click in the “8x10” window.
 - ⇒ The “8x10” list field must be highlighted.

NOTE

If the film size is not displayed, restart the system via <Options>-<End Session>-<Shutdown System> and repeat the section “Printer setup in syngo application software”.

- Segment lines = “Yes”
 - Page number on print out = ☒
3. Click “Apply”.
 4. Under the “Series” tab card, enter the following parameters:
 - Layout divisions = “1x1”
 - Orientation = “Portrait” (“Hochformat”)
 - Image order = “Horizontal”
 - Aspect Ratio = “Keep visible part”
 - Copy Series = ☐
 5. Click <Apply>.
 6. Shut down the system via <Options>-<End Session>-<Shutdown System>.

Codonics EP-1660L Local Printer Installation

Prerequisites

1. For the necessary test exposures, make sure the printer has paper or film.
2. The printer has to be connected to the PC.
3. Switch on the system and wait until it has booted.

Printer setup in local service

1. In the "Service" menu, click <Configuration>.
2. In the "List of system options" window, the "Paper Printer" check box ☒ must be checked.
3. Click <Next>.

Paper Printer

1. Under the "External Devices" menu, click "Paper Printer".
2. In "Available paper printer media formats", mark "8x10". All other formats must be deselected.
3. Click <Save>.

Printer settings

1. Under the "External Devices" menu, click (or <Next> to go to) "Printer settings".
⇒ Make sure that the default value "black" is selected and click <Finish>.

PS LUT files

1. Under the "External Devices" menu, click "PS LUT files".
2. Ensure that the "Use LUT for Postscript Printers" check box is checked.
3. Ensure that the "Use floating Zoom factors" check box is marked.
4. In the "PS LUT directory" list field, select "PrtLUT_Gamma_1_6" (not "Printer LUT_1_6").
⇒ The scroll bar slider must be moved down to make the "PrtLUT_Gamma_1_6" visible.
5. Click <Select>.
⇒ The selected LUT appears in the "Current LUT" field.
6. Click <Save>.
⇒ If a window appears "A system reboot is necessary..." click <Cancel>.

NOTE

Do not shut down the system.

Log off as “meduser” and log on as “administrator”

1. In the "Service" menu, click <Home> -<Utilities>.
2. Under “Source”, select “System”.
3. Select “Shut down Application” and click <Go>.
 - ⇒ The message box appears: “Application shutdown was selected. Are you sure?”
4. Click <OK>.
 - ⇒ The system shuts down to Windows XP level.
 - ⇒ The message appears: “Shutdown of Application finished...”
5. In the Windows menu bar, click <Start>-<Shut Down...>.
6. Select “Log off meduser”.
7. Click <OK>, then **immediately** (within 1 sec) press and hold the shift key on the keyboard.
 - ⇒ A “Log on” window appears.
 - Under “User name”, enter “administrator”.
 - Under “Password”, enter the administrator password (see SP password list).

NOTE

If the administrator password is not valid, proceed as follows: In the “Service” menu click <Configuration> - <Next> then under “Local Host” click <Users>. In the “Account for Administrator” fields, enter the password from the SP password list, confirm it, and click <Save>.

8. Click <OK>.
 - ⇒ The system is now at the Windows XP level with administrator rights.

Codonics EP1660L printer driver installation and setting

Printer driver installation

1. In the Windows task bar, right-click <Start>, select and click <Explorer>.
 - ⇒ Windows Explorer opens.
2. Select and open the path “C:\ASPIA\driver\EP-1660L”.
 - ⇒ The contents of the subdirectory “C:\ASPIA\driver\EP-1660L” are displayed.
3. Double-click the file “printer_Codonics EP-1660.reg” and confirm the subsequent message windows with “Yes” and “OK”.
4. Double-click the file “ep1660L-windriver-2959.exe”.
 - ⇒ The “Codonics EP-Series Printing System Installer” window is displayed.
5. Click <OK>.
 - ⇒ The “WinZip Self Extractor-ep1660L-windriver-2959” window is displayed.

6. Click <Setup>.

⇒ The window appears: "Welcome to the Add Printer Wizard".

Installing the printer files

1. When the "Welcome to the Add Printer Wizard" window is displayed, click <Next>.

⇒ The window appears: "Local or Network Printer".

2. Select the "Local printer attached to this computer" option button if it is not already selected.
3. Deselect the "Automatically detect and install my Plug and Play printer" option button.
4. Click <Next>.

⇒ The window appears: "Select a printer port".

5. Select the "Use the following port:" option button and open the list field.
6. Select "EPR1:(Codonics EP-Series Port Monitor)" in the list field.
7. Click <Next>.

⇒ The window appears: "Install Printer Software".

8. Click <Have Disk...> .

⇒ The window appears: "Install from Disk".

9. Click <Browse>.

⇒ The Explorer window is displayed.

10. Open the path "C:\CODONICS\driver\win2k_xp".

⇒ The contents of the selected path are displayed.

11. Select the file "Codonics-EP.INF" and click <Open>.

⇒ The "Install From Disk" window shows the selected path.

12. Click <OK>.

⇒ The message "This driver is not digitally signed!" is displayed.

13. Click <Next>.

⇒ The "Name your Printer" window is displayed.

14. Click <Next> to confirm the displayed printer name "Codonics EP-1660".

⇒ The software installation continues.

⇒ The "Print Test Page" window is displayed.

15. Select the "No" option button.

16. Click <Next>.

⇒ The "Completing the Add Printer Wizard" window is displayed.

17. Click <Finish> to close the "Add Printer Wizard"

⇒ Close any message windows that may still be open.

Printer driver settings

1. Click <Start> in the windows task bar.
2. Select <Settings>.

3. Select and click <Printers and Faxes>.
 - ⇒ The <Printers and Faxes> window is displayed.
4. Select the “Codonics EP-1660” icon and click the right-hand mouse button.
 - ⇒ A small menu window is displayed next to the mouse cursor.
5. Select and click the <Properties> menu.
 - ⇒ The “Codonics EP-1660L Properties” window is displayed.
6. Select the <Advanced> tab card in the “Codonics EP-1660L Properties” window.
7. Click <Printing Defaults...>.
 - ⇒ The “Codonics EP-1660L Printing Defaults” window is displayed.
8. In the “Layout” tab card, click <Advanced>.
 - ⇒ The “Codonics EP-1660L Advanced Options” window is displayed.
9. In the “Paper size” list field, select and click “8x10”.
 - ⇒ The “8x10” list field must be highlighted.
10. Click <OK> to close the “Codonics EP-1660L Advanced” window.
11. Click <OK> to close the “Codonics EP-1660L Printing Defaults” window.
12. Select the “Device settings” tab card in the “Codonics EP-1660L Properties” window.
13. In the “Form To Tray Assignment” - “Only One” list field, select and click “8x10”.
 - ⇒ The “8x10” list field must be highlighted.

NOTE

Do not select “Film (8x10 in.)” in the “Form To Tray Assignment Only One” list field.

14. Click <Apply>.
15. In the window “Sony UP-D72XR Properties”, click “General” and “Print Test Page”.
 - ⇒ Wait until a Windows test page is printed out.
16. Click <OK> to close the “Codonics EP-1660L Properties” window.
17. In the Windows task bar, click <Start>-<Shut Down...>-<Restart> and confirm with <OK> to restart the system.
 - ⇒ After the restart, you are logged onto the system as “meduser”.

Printer setup in syngo application software

Set the film size under “Filming”

1. On the right-hand monitor, select the “Filming” tab card.
 - ⇒ The “Filming” tab card is active on the right-hand monitor.
2. Select the “Camera” menu tab card on the “Filming” tab card.
3. In the “Camera” list field, select “Codonics EP-1660L”.
4. In the “Film size” list field, select and click “8x10”.
 - ⇒ The “8x10” list field must be highlighted.

Set the film size under “Structured reporting”

1. On the “Examination” tab card, click <Options>-<Configuration> .
 - ⇒ The “Configuration” panel is displayed.
2. Double-click the <Structured reporting> icon (“Strukturierte Befundung”).
3. In the “Default Printer” list field, select and click “Codonics EP-1660L”.
 - ⇒ The “Codonics EP-1660L” list field must be highlighted.
4. In the “Default paper size” list field, select and click “8x10”.
 - ⇒ The “8x10” list field must be highlighted.
5. Click <Apply> and <OK>.

Configure “Filming Layout”

1. Double-click the <Filming Layout> icon.

NOTE

If a message box appears, confirm with OK and double-click the <Filming Layout> icon again.

2. On the “Filming” tab card, enter the following parameters:

- New filmjob by patient = ☒
- New film sheet by (study or series) = ☐
- New row of images by (patient, study or series) = ☐
- Number of Copies = “1”
- Exposure every X document = “1”
- Filmsize = “8x10” --> click “8x10”
- ⇒ The “8x10” list field must be highlighted.

NOTE

If the film size is not displayed, restart the system via <Options>-<End Session>-<Shutdown System> and repeat the section “Printer setup in syngo application software”.

- Segment lines = “Yes”
 - Page number on print out = ☒
3. Click “Apply”.
 4. On the “Series” tab card, enter the following parameters:
 - Layout divisions = “1x1”
 - Orientation = “Portrait” (“Hochformat”)
 - Image order = “Horizontal”
 - Aspect Ratio = “Keep visible part”
 - Copy Series = ☐
 5. Click <Apply> and <OK>.
 6. Shut down the system via <Options>-<End Session>-<Shutdown System>.

NOTE

After the parameters have been changed, a backup must be performed.

NOTE

The monitor trolley and the basic unit must be connected. (Plug X10 is connected to socket X10.)

1. Switch on the system and wait till it has booted.
2. Open the local service.
3. Insert an empty CD-R in the CD tray of the CD/DVD drive.
4. Select "Command" and "Backup".
5. As backup drive, select "(R) CD-R" in the "Drives" list field.
6. Perform a backup of the following packages:
 - ⇒ SW-Settings 02
 - ⇒ ASPIA Settings
 - ⇒ 3D Reconstruction settings (only for ARCADIS Orbic with 3D reconstruction)
 - ⇒ User defined ExamSet
 - ⇒ Security settings (Option)
 - ⇒ Main system
7. After the backup, remove the CD-ROM from the CD/DVD drive, write the system name, system serial number, date, and time on the CD-ROM, and insert it into the system log-book.

Chapter 2 “COPATCH SW VA01A” added to the installation procedure.